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U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
Washington 25, D. C.

Letter
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LC941)

January 24, 1950

STANDARDS AND SPECIFICATIONS
FOR BUILDING AND CONSTRUCTION MATERIALS,
FIXTURES, SUPPLIES, AND EQUIPMENT

Commercial Standards, Simplified Practice Recommendations, and Federal Specifications for building and construction materials, fixtures, supplies, and equipment are listed herein.

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COMMERCIAL STANDARDS

<u>Title</u>	<u>Series</u>	<u>Price</u>
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Hardware, builders' (template) (second edition).....	CS 9-33	10¢
Hardware cloth.....	CS132-46	5¢
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Nipples, pipe; brass, copper, steel, and wrought iron (second edition).....	CS 5-46	5¢
Paneling, solid hardwood, wall.....	CS 74-39	5¢
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Pipe; lead.....	CS 95-41	5¢
Plumbing fixtures, earthenware (vitreous-glazed).....	CS111-43	5¢
Plumbing fixtures, enameled cast iron (second edition).	CS 77-48	10¢
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Commercial Standards - cont.

<u>Title</u>	<u>Series</u>	<u>Price</u>
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Plywood; hemlock, western.....	CS122-45	5¢
Screening, wire; insect.....	CS138-47	5¢
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Tanks for domestic use, porcelain-enameled (mimeo.)....	CS115-44	Free
Tents, cotton fabric, tarpaulins and covers (second ed.)	CS 28-46	5¢
Traps and bends; lead.....	CS 96-41	5¢
Trim and molding; hardwood interior.....	CS 76-39	5¢
Utensils, steel, porcelain-enameled (third edition)....	CS100-47	10¢
Veneers, walnut.....	CS 64-37	5¢
Wallboard; fiber, homogeneous.....	CS112-43	5¢
Wood-preserved; copper naphthenate (for brush, dip, and spray application).....	CS152-48	5¢

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SIMPLIFIED PRACTICE RECOMMENDATIONS

<u>Title</u>	<u>Series</u>	<u>Price</u>
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Bars, steel, reinforcing.....	R 26-49	10¢
Boilers, range; expansion and solar tanks; ferrous.....	R 8-47	5¢
Boilers, range; nonferrous.....	R 181-41	5¢
Boilers, steel, heating, horizontal firebox (mimeo.)...	R 157-49	Free
Bolts and nuts.....	R 169-45	10¢
Brick, common; and rough and smooth face.....	R 7	5¢
Brick, paving, vitrified.....	R 1-40	5¢
Brick, sand-lime.....	R 38-37	5¢
Building units, concrete.....	R 32-38	5¢
Clay sewer pipe and fittings.....	R 211-45	10¢
Conductors, copper; (for building purposes) (mimeo.)...	R 180-41	Free
Copper and copper-alloy round seamless tube.....	R 235-48	5¢
Copper water tube and copper and brass pipe.....	R 217-49	10¢
Doors, hollow metal, single acting swing; frames & trim	R 82-28	5¢
Doors, kalamein; single acting swing; frames and trim..	R 83-28	5¢
Eaves trough, conductor pipe, and fittings.....	R 29-49	10¢
Fencing, galvanized woven-wire; and barbed wire.....	R 9-47	10¢
Fittings, pipe (gray cast iron, malleable iron, and brass or bronze).....	R 185-47	10¢
Fittings, solder-joint, cast brass.....	R 212-45	5¢

Simplified Practice Recommendations - cont.

<u>Title</u>	<u>Series</u>	<u>Price</u>
Forms for concrete joist construction floors.....	R 87-32	5¢
Hardware, builders' (nontemplate) (Standards for Builders Hardware are set forth in Commercial Stand. CS22-40)	R 18	5¢
Hot-rolled carbon steel structural shapes.....	R 216-46	10¢
Insulating-board, structural (wood or other vegetable fiber).....	R 179-46	5¢
Joists, steel, open web.....	R 94-30	5¢
Lath, metal (expanded and sheet) and metal plastering accessories.....	R 3-44	5¢
Lights; sidewalk, floor, and roof.....	R 49	5¢
Lumber, softwood (includes shingles and mouldings).....	R 16-39	20¢
Nails, wire, copper.....	R 150-34	5¢
Nails, wire; and staples.....	R 223-47	10¢
Paints, varnishes, and related products (colors and containers) (mimeographed).....	R 144-45	Free
Partitions, metal; for toilets and showers.....	R 101-40	5¢
Pipes, ducts, and fittings for warm-air heating and air conditioning.....	R 207-49	10¢
Pipe, stove, and accessories.....	P 190-42	5¢
Pipe, wrought-iron and wrought-steel; and valves and fittings.....	R 57-32	5¢
Plumbing fixture fittings and trim for housing.....	R 227-47	5¢
Plumbing fixtures, hospital.....	R 106-41	5¢
Radiators, cast-iron.....	R 174-47	5¢
Refrigerator, ice compartment sizes (mimeographed).....	R 109-29	Free
Roofing, iron and steel.....	R 78-28	5¢
Roofing ternes.....	R 30-42	5¢
Rope, wire.....	R 198-43	10¢
Screen cloth, insect, wire.....	R 122-31	5¢
Shades, cloth, window.....	R 199-43	5¢
Slate, blackboard.....	R 15-35	5¢
Slate, roofing (mimeographed).....	R 14-28	Free
Slate, structural (mimeographed).....	R 13-28	Free
Spirals, steel, reinforcing.....	R 53-32	5¢
Steel, sheet (mimeographed).....	R 28-29	Free
Tacks (cut) and small cut nails (mimeographed).....	R 47-49	Free
Tanks, storage, hot water (mimeographed).....	R 25	Free
Tile, asphalt.....	R 225-47	5¢
Tile, building, hollow.....	R 12	5¢
Tiles, clay; for floors and walls.....	R 61-44	10¢
Traps, lavatory and sink.....	R 21-46	5¢
Valves, automatic regulating.....	R 219-46	5¢
Valves, brass or bronze (gate, globe, angle, and check).....	R 183-46	5¢
Valves, iron (gate, globe, angle, and check).....	R 184-47	5¢
Welded-wire fabric reinforcement for concrete pipe.....	R 234-48	5¢
Windows, steel, solid section (mimeographed).....	R 72	Free
Simplified practice, its purpose and application (mimeo.)	LC590	Free

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FEDERAL SPECIFICATIONS

List of Building and Construction Materials, Fixtures, Supplies,
and Equipment arranged by Commodity Groups.

ANIMAL PRODUCTS

Specification Symbol

Felt; hair.....	C-F-202	10¢
Glue; animal (for) woodworking.....	C-G-451	
Glue; casein-type, water-resistant.....	C-G-456	
Glue; liquid.....	C-G-463	
Glue; resin-type (liquid and powder).....	C-G-496	

CABLE AND WIRE

Cable, armored (including lead covered types and armored cord); 0 to 600-volt service.....	J-C-71	
Cable, Cord, and Wire; electric, flexible, cotton-covered (general service).....	J-C-86	
Cable and Wire; rubber-insulated, building-type (0 to 5000-volt service).....	J-C-103	10¢
Cable and Wire; rubber-insulated (for) other than building-purposes, superaging-grade (0 to 8000-volt service)....	J-C-121	
Cable and Wire; thermoplastic-insulated, building-type, (0 to 600-volt service).....	J-C-129	
Cable and Wire; varnished-cloth-insulated (0 to 5000-volt service).....	J-C-138	
Cable and Wire; weather-resistant.....	J-C-145	

CANVAS ARTICLES

Paulins and Covers; duck (Tarpaulins).....	K-P-146
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CHEMICALS

Acid; hydrochloric (muriatic), technical-grade.....	O-A-86
Calcium-chloride; hydrated, technical-grade.....	O-C-106
Fire-Extinguishers; chemical, hand, carbon-tetrachloride type	O-F-351
Fire-Extinguishers; chemical, hand, soda-and-acid type.....	O-F-355
Fire-Extinguishers; hand, portable, foam-type.....	O-F-361
Fire-Extinguishers; hand, portable, pump-tank-type.....	O-F-367
Fire-Extinguishing-Liquid; carbon-tetrachloride base.....	O-F-380
Flux, soldering; paste.....	O-F-506
Paste, linoleum.....	O-P-106

CLEANING AND POLISHING MATERIALS

Cloth; abrasive, aluminum-oxide.....	P-C-451
Compound; cleaning, soap-abrasive-type (for painted surfaces)	P-C-565
Compound; sweeping.....	P-C-591
Oil, floor; mineral.....	P-O-361
Paper; abrasive, artificial, waterproof.....	P-P-101
Paper; flint.....	P-P-111
Paper; garnet.....	P-P-121
Paper; garnet, waterproof.....	P-P-126

CLEANING AND POLISHING MATERIALS (Cont.)

Specification

Symbol

Polish; furniture, liquid.....	P-P-552
Polish; metal.....	P-P-556
Powder; scouring (for) floors.....	P-P-591
Powder; scouring (for) highly-polished glass.....	P-P-596
Soap-Powder.....	P-S-606
Soap; toilet, powdered (for) dispensers.....	P-S-626
Soap-Borax-Compound; toilet (for) dispensers.....	P-S-628
Wax, floor; solvent-type liquid (with resins).....	P-W-134
Wax, floor; water-emulsion.....	P-W-151
Wax, general-purpose; solvent-type, liquid and paste (for floors, furniture, etc.).....	P-W-158
Wax, carnauba.....	JJJ-W-141

COAL AND PRODUCTS

Coke; (coal).....	Q-C-571
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COAL-TAR AND PRODUCTS

Pitch; coal-tar (for) mineral-surfaced built-up roofing waterproofing and dampproofing.....	R-P-381
Tar; (for) joint filler.....	R-T-111
Tars; (for use in) road-construction.....	R-T-143

COOKING AND HEATING APPARATUS, FURNACES AND OVENS (non-electric)

Forges; portable, coal-burning.....	S-F-571
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CORDAGE, TWINE, AND PRODUCTS

Cord, sash; cotton, braided.....	T-C-571
Mops; cotton.....	T-M-561

ELECTRIC-APPARATUS

Bases; cut-out (for) enclosed-cartridge, open-link, and plug-fuses.....	W-B-81	
Batteries and Cells; dry.....	W-B-101	10¢
Batteries, storage; ignition, lighting and starting.....	W-B-131	
Blasting-Apparatus (Machines, blasting; galvanometers and rheostats for testing blasting circuits and machines)..	W-B-411	
Boxes and Outlet-fittings, floor; (for) rigid-steel-conduit and electric-metallic-tubing (steel).....	W-B-616	
Cleaners, vacuum; electric, portable.....	W-C-421	
Clock-Systems; electric.....	W-C-471	
Conduit and Fittings; asbestos-cement (for) electrical purposes.....	W-C-571	
Conduit and Fittings; fiber, bituminized.....	W-C-581	
Connectors, wire; pressure, solderless (for electric cable and wire).....	W-C-601	
Drills; electric, portable (exclusive of high-frequency types)	W-D-661	

ELECTRIC-APPARATUS (Cont.)

Specification
Symbol

Electrodes; carbon, amorphous.....	W-E-441	
Fans, electric; bracket and desk types, rigid-blades (for shore use).....	W-F-101	
Fire-Alarm-Systems; electric, manual, coded, positive noninterfering-type.....	W-F-391	
Fire-Alarm-Systems; electric, manual, coded, shunt Noninterfering-type.....	W-F-396	
Fire-Alarm-Systems; electric, manual, noncoded type.....	W-F-398	
Fittings; cable and conduit.....	W-F-406	
Flashlights; electric, hand (without batteries).....	W-F-421	
Fuses; cartridge, inclosed, nonrenewable.....	W-F-791	
Fuses; cartridge, inclosed, renewable (fusible links not separately inclosed); and Renewable-Links therefor.....	W-F-803	
Fuses; cartridge, inclosed, renewable (fusible links separately inclosed).....	W-F-805	
Fuses; plug, nonrenewable.....	W-F-831	
Grinders, bench, electric.....	W-G-656	
Grinders; electric, portable.....	W-G-663	
Heaters, electric; water, storage, domestic.....	W-H-196	
Hot-Plates; electric.....	W-H-636	
Irons, soldering; electric.....	W-I-681	
Lamps; electric, incandescent, large, tungsten-filament.....	W-L-101	
Lamps; electric, incandescent, large, tungsten-filament.....	W-L-101	1950 Sup.
Lamps; electric, incandescent, miniature, tungsten-filament.....	W-L-111	
Lamps; electric, incandescent, miniature, tungsten-filament.....	W-L-111	1950 Sup.
Lamp-Auxiliaries; fluorescent.....	W-L-131	
Lamp-Auxiliaries; fluorescent.....	W-L-131	1945 Sup.
Lampholders (Sockets); medium-screw-shell, general service..	W-L-142	10¢
Lampholders (Sockets); medium-screw-shell, weatherproof.....	W-L-146	
Machines, floor-polishing and scrubbing; electric.....	W-M-46	
Outlet-Bodies; iron (cast or malleable), cadmium or zinc- coated with covers and accessories (for shore use).....	W-O-806	
Outlet-Boxes; steel, cadmium or zinc-coated, with covers and accessories.....	W-O-821	
Panelboards; equipped with automatic-circuit-breakers.....	W-P-131	
Panelboards; equipped with fuse-connections or switches and fuse-connections.....	W-P-146	
Pullers, fuse.....	W-P-796	
Raceways and Fittings; metallic, surface.....	W-R-32	
Raceways and Fittings; metallic, underfloor.....	W-R-36	
Raceways and Fittings; nonmetallic, underfloor.....	W-R-41	
Ranges; electric, domestic, cabinet-type.....	W-R-101	
Receptacles (convenience-outlets); adapters, attachment- plug-caps, cord-connector-bodies, current-taps, motor-base-plugs, and plug-bodies; 250-volts.....	W-R-151	30¢
Switches; knife, open-type, front- and rear-connected.....	W-S-871	
Switches; snap, miscellaneous.....	W-S-890	
Switches; snap, multiple-type and combination-devices, flush-type, with wall-plates.....	W-S-893	
Switches; snap, single-unit, interchangeable, flush-type with wall-plates.....	W-S-896	

ELECTRIC-APPARATUS (Cont.)

Specification Symbol

Transformers; distribution, single-phase, 60-cycles (100 KV-A and below; 15,000 volts and below).....	W-T-631	10¢
Units, heating, electric; replacement (for water-heaters, ranges, and hot-plates).....	W-U-546	
Watchmen's-Report systems.....	W-W-101	

FURNITURE

Beds; hospital.....	AA-B-201	
Beds; hospital (adjustable spring bottom).....	AA-B-211	
Cabinets; filing, insulated, fire-resisting.....	AA-C-23	
Cabinets; stationery, storage, and clothing (steel).....	AA-C-31	
Cases; transfer, steel.....	AA-C-121	
Chairs; bent-wood.....	AA-C-281	
Chairs; folding, metal.....	AA-C-291	
Chairs; office, wood.....	AA-C-311	10¢
Chairs; operating, dental, motorless.....	AA-C-326	
Chairs, wheel; invalid.....	AA-C-346	
Costumers; wood.....	AA-C-556	
Cots; folding, canvas.....	AA-C-571	
Cots; folding, hospital, steel.....	AA-C-581	
Desks; steel.....	AA-D-191	
Desks; wood.....	AA-D-201	
Furniture and Cabinets; office, sectional, steel.....	AA-F-791	10¢
Furniture and Cabinets; office, sectional, wood.....	AA-F-801	
Lockers; clothes, steel.....	AA-L-486	
Refrigerators; electric, portable.....	AA-R-211	
Safes; burglar-resisting.....	AA-S-71	
Safes; insulated.....	AA-S-81	
Settees; wood.....	AA-S-256	
Shelving; steel, storage.....	AA-S-271	
Stands; dictionary.....	AA-S-671	
Stools; foot.....	AA-S-691	
Stools; wood.....	AA-S-701	10¢
Tables; office, steel.....	AA-T-91	
Tables; and Typewriter-Stands, wood.....	AA-T-101	
Wardrobes; wood.....	AA-W-131	

GENERATORS AND MOTORS

Motors; alternating-current, fractional-horsepower, single-phase and universal.....	CC-M-636	
Motors; alternating-current, integral-horsepower.....	CC-M-641	10¢

GLASS AND GLASSWARE

Chimneys and Globes (lamp and lantern); glass.....	DD-C-311	
Glass; flat (for) glazing purposes.....	DD-G-451	
Glass; flat, glazing (for) transmitting not less than 25% of ultra-violet radiation at wave length 302 millimicrons	DD-G-476	
Glasses, gage; reflex and round, tank (for pressures under 125 pounds).....	DD-G-496	
Glasses, gage; round, boiler, (for pressures 125 pounds and over).....	DD-G-511	

HARDWARE

Specification Symbol

Bearings; ball.....	FF-B-171	20¢
Bearings; roller.....	FF-B-186	10¢
Bolts, lag; steel (lag-screws).....	FF-B-561	
Bolts; Nuts; Studs; and Tap-Rivets (and material for same)...	FF-B-571	
Casters; metal-chair.....	FF-C-81	
Casters; truck.....	FF-C-86	
Casters; wood-chair.....	FF-C-91	
Dispensers; soap.....	FF-D-396	
Hardware, builders'; locks and lock-trim.....	FF-H-106	25¢
Hardware, builders'; shelf and miscellaneous.....	FF-H-111	25¢
Hardware, builders'; hinges (nontemplate).....	FF-H-116	10¢
Hardware, builders'; door-closers.....	FF-H-121	
Hardware and Fittings; (for) lavatory partitions and inclosures.....	FF-H-136	
Nails; Spikes; Staples; and Tacks.....	FF-N-101	10¢
Padlocks.....	FF-P-101	
Pins; cotter, split.....	FF-P-386	
Pulleys; eye, single sheave, with attachment for balkan frame, (for) hospitals.....	FF-P-806	
Screws, machine; (including screws, set).....	FF-S-91	
Screws; wood.....	FF-S-111	
Turnbuckles.....	FF-T-791	
Wool; steel.....	FF-W-556	

INSTRUMENTS

Boards; drawing.....	GG-B-546	
Clocks; pendulum (for) general purposes.....	GG-C-451	
Clocks; synchronous-motor (for) general purposes.....	GG-C-466	
Gages; pressure, (for) direct-stem-mounting.....	GG-G-66	
Gages; pressure and vacuum (for) air, ammonia, oil, steam, and water.....	GG-G-76	
Gages; sheet-metal, twist drill, and wire.....	GG-G-86	
Hydrometers; syringe (for lead-acid storage batteries).....	GG-H-941	
Instruments; drawing; nickel-silver (first-grade).....	GG-I-531	
Triangles; plastic, transparent.....	GG-T-671	
T-Squares; plastic, wood, and wood-and-plastic.....	GG-T-711	

INSULATING MATERIALS

Brick; fire-clay.....	HH-B-671	
Brick; silica.....	HH-B-681	
Cement, insulation; thermal, mineral-wool.....	HH-C-168	
Cement; silica.....	HH-C-176	
Clay; fire, ground.....	HH-C-451	
Compound; plumbing-fixture-setting.....	HH-C-536	
Cork; compressed (corkboard) (for thermal insulation).....	HH-C-561	
Cork; granulated, insulating.....	HH-C-571	
Cork-Composition; gasket and sheet.....	HH-C-576	
Cotton-Fabric; woven, asphalt-saturated.....	HH-C-581	
Cotton-Fabric; woven, coal-tar-saturated.....	HH-C-591	

INSULATING MATERIALS (Cont.)

Specification
Symbol

Felt, asbestos; asphalt-saturated, coated, for built-up roofing.....	HH-F-182
Felt, asbestos; asphalt-saturated, uncoated, for flashings, roofing, and waterproofing.....	HH-F-185
Felt; asphalt-saturated (for) flashings, roofing, and waterproofing.....	HH-F-191
Felt; coal-tar-saturated (for) roofing and waterproofing....	HH-F-201
Filler, expansion-joint, preformed; nonextruding-bituminous-fiber-type (for concrete).....	HH-F-334
Filler, expansion-joint, preformed; nonextruding and resilient-types (for concrete).....	HH-F-341
Gaskets; asbestos-copper, corrugated.....	HH-G-71
Gaskets; asbestos, metallic-cloth.....	HH-G-76
Gaskets; metallic-encased.....	HH-G-101
Gaskets; plumbing-fixture-setting.....	HH-G-116
Gaskets; rubber (natural or synthetic), molded sheet, and strip.....	HH-G-156
Insulation; building, mineral-wool batts, loose-fill and granular-fill.....	HH-I-521
Insulation; cotton batts.....	HH-I-528
Insulation; glass, cellular, block.....	HH-I-551
Insulation (glass-fiber); semi-rigid.....	HH-I-556
Insulation; laminated-asbestos.....	HH-I-561
Insulation, Mineral-Wool; blanket, felt, and industrial-batt (for heated surfaces).....	HH-I-563
Insulation, Mineral-Wool; block and board (for heated surfaces)	HH-I-564
Insulation; pipe, laminated-felt (for temperatures between 40° and 212° F).....	HH-I-567
Insulation (vegetable or wood-fiber); blanket, felt, and loose-fill.....	HH-I-571
Insulation, vermiculite; block and pipe-covering (molded)....	HH-I-578
Magnesia; block, cement, and pipe-covering (molded).....	HH-M-61
Millboard; asbestos.....	HH-M-351
Mineral-Wool; blocks and pipe-covering (molded type) and felt, for low temperatures.....	HH-M-371
Mortar; air-setting, refractory, bonding, (wet and dry types)	HH-M-611
Mortar; heat-setting, refractory.....	HH-M-622
Packing; asbestos, metallic-cloth, sheet and tape.....	HH-P-31
Packing; asbestos, rod, braided.....	HH-P-34
Packing; asbestos, rod, high-pressure.....	HH-P-36
Packing; asbestos, rope and wick.....	HH-P-41
Packing; asbestos, sheet, compressed.....	HH-P-46
Packing; asbestos, valve-stem.....	HH-P-51
Packing; diaphragm.....	HH-P-61
Packing; fabric, condenser-tube.....	HH-P-71
Packing; fiber, hard, sheet.....	HH-P-91
Packing; fiber, (animal or plant); sheet (for) lubricating and fuel-oil.....	HH-P-96
Packing; flax or hemp.....	HH-P-106
Packing; hydraulic.....	HH-P-112
Packing; jute, twisted.....	HH-P-117
Packing; metallic, flexible.....	HH-P-126
Packing; metallic, flexible, condenser-tube.....	HH-P-128

INSULATING MATERIALS (Cont.)

Specification Symbol

Packing; metallic and nonmetallic, plastic.....	HH-P-131
Packing; rubber; cloth-insertion.....	HH-P-151
Packing; semimetallic.....	HH-P-166
Packing; spiral, gland, low-pressure.....	HH-P-171
Phenolic-Condensation-Products; laminated (for electric purposes).....	HH-P-256
Pipe-Covering; cork, molded.....	HH-P-381
Pipe-Covering; mineral-wool (molded-type and blanket-type for heated pipes).....	HH-P-387
Refractories; fire-clay, plastic.....	HH-R-191
Tape; friction.....	HH-T-101
Tape; rubber (natural and synthetic), insulating.....	HH-T-111
Tubing; flexible, nonmetallic.....	HH-T-791

KNIT GOODS, NETTING, AND WEBBING

Gloves; working, cotton, with-leather-palm.....	JJ-G-451
Hose; fire, linen, unlined.....	JJ-H-571

LEATHER AND LEATHER-GOODS

Leather; artificial (upholstery).....	KK-L-136
Leather; upholstery.....	KK-L-291

LUMBER

Lumber and Timber; hardwood.....	MM-L-736
Lumber and Timber; softwood.....	MM-L-751

LUMBER PRODUCTS

Handles; ash (for) tools.....	NN-H-81
Handles; hickory; striking-tool.....	NN-H-93 10¢
Handles; mop.....	NN-H-101
Handles; wood, miscellaneous (for) tools.....	NN-H-106

MACHINERY

Air-Conditioning-Units (room-coolers); electric-motor- driven, portable.....	OO-A-361
Coolers, drinking-water; electric.....	OO-C-566
Grinders; bench, hand-power.....	OO-G-661
Hammers; electric, portable.....	OO-H-103
Sanders, portable; belt, disk, and oscillating.....	OO-S-101

METALS

Bars; reinforcement, (for) concrete.....	QQ-B-71
Bases, metal; (for) plaster and stucco construction.....	QQ-B-101
Copper; bars, plates, rods, shapes, sheets, and strips.....	QQ-C-501
Culverts; iron or steel, zinc-coated.....	QQ-C-806
Iron and Steel; sheet, zinc-coated (galvanized).....	QQ-I-716
Lead; calking.....	QQ-L-156
Lead; sheet.....	QQ-L-201

	Specification	
	Symbol	
METALS (Cont.)		
Solder; soft (tin, tin-lead, and lead-silver).....	QQ-S-571	
Steel; carbon (low-carbon), sheets and strips.....	QQ-S-636	
Steel, structural (including welding) and rivet; (for) bridges and buildings.....	QQ-S-741	
Steel, Corrosion-Resisting; plates, sheets, strips, and structural-shapes.....	QQ-S-766	
Terne-Plate (long-ternes).....	QQ-T-191	
Terne-Plate (for roofing).....	QQ-T-201	
Zinc; plates, sheets, and strips.....	QQ-Z-301	
METAL PRODUCTS		
Cloth; wire, screen.....	RR-C-451	
Fencing; chain-link or welded.....	RR-F-191	
Fencing; wire (barbed, netting, and woven), black and galvanized.....	RR-F-221	
Gratings; steel, floor (except for Naval vessels).....	RR-G-661	
Rope; wire.....	RR-R-571	15¢
Tile, wall; sheet iron or steel, porcelain-enameled.....	RR-T-421	
Treads; safety, metallic.....	RR-T-661	
MINERALS AND PRODUCTS (nonmetallic)		
Acoustic-Materials; (for) plastic application.....	SS-A-111	
Acoustical-Units; prefabricated.....	SS-A-118	
Aggregate; (for) portland cement concrete.....	SS-A-281	
Asphalt; (for) built-up roofing, waterproofing, and dampproofing.....	SS-A-666	
Asphalt; cut-back (for) road-work.....	SS-A-671	
Asphalt; emulsion (for) road-work.....	SS-A-674	
Asphalt; petroleum, type PAF-1-25, (for) joint-filler (Squeegee or pouring method).....	SS-A-696	
Asphalt-Primer; (for) roofing and waterproofing.....	SS-A-701	
Asphalt; (for use in) road and pavement construction.....	SS-A-706	
Brick; building, (common), clay.....	SS-B-656	
Brick; concrete.....	SS-B-663	
Brick; paving.....	SS-B-671	
Brick; sand-lime.....	SS-B-681	
Brick; sewer, clay.....	SS-B-691	
Cement; bituminous, plastic.....	SS-C-153	
Cements, hydraulic; general specifications (methods for sampling, inspection, and testing).....	SS-C-158	15¢
Cement; Keene's.....	SS-C-161	
Cement; masonry.....	SS-C-181	
Cements; portland.....	SS-C-192	
Cement; portland, pozzolana.....	SS-C-208	
Chalk, carpenters' and railroad.....	SS-C-255	
Compound, jointing; sulfur (for bell-and-spigot cast-iron pipe).....	SS-C-608	
Concrete-Units; masonry, hollow.....	SS-C-621	

MINERALS AND PRODUCTS (nonmetallic) (Cont.)

Specification

Symbol

Crushed-Stone, Crushed-Gravel, and Crushed-Slag; (for) binder-course, sheet-asphalt-pavement.....	SS-C-726
Crushed-Stone, Crushed-Gravel, and Crushed-Slag; (for) bituminous-concrete-base or surface-course.....	SS-C-731
Crushed-Stone and Crushed-Slag; (for) bituminous-macadam- base or surface-course.....	SS-C-736
Crushed-Stone, Crushed-Slag, and Gravel; (for) Bituminous surface-treatment.....	SS-C-741
Crushed-Stone, Crushed-Slag, and Gravel; (for) sewage trickling filter media.....	SS-C-744
Crushed-Stone and Crushed-Slag; (for) waterbound-base or wearing-course.....	SS-C-746
Filler; joint-sealing, hot-poured type (for concrete).....	SS-F-336
Granite-Blocks; recut granite, and durax granite pavements...	SS-G-651
Lime; hydrated (for) structural purposes.....	SS-L-351
Lime; hydraulic, hydrated.....	SS-L-361
Materials; (for) cushion course, brick, stone-block, or wood- block pavements (sand, slag, limestone, screenings, etc.)	SS-M-51
Mineral-Filler; (for) sheet asphalt or asphaltic concrete pave- ments (portland cement, limestone dust and dolomite dust)	SS-M-351
Pipe; asbestos-cement.....	SS-P-351
Pipe; clay, sewer.....	SS-P-361
Pipe; concrete, non-pressure, non-reinforced and reinforced..	SS-P-371
Plaster; gypsum.....	SS-P-402
Plaster-Board; gypsum.....	SS-P-431
Quicklime; (for) structural purposes.....	SS-Q-351
Road and Paving-Materials; general specifications (methods for sampling and testing).....	SS-R-406
Roof-Coating; asphalt, brushing-consistency.....	SS-R-451
Roofing; asphalt-prepared, smooth-surfaced.....	SS-R-501
Roofing; asphalt and asbestos-prepared, mineral-surfaced.....	SS-R-511
Roofing and Shingles; asphalt-prepared, mineral-surfaced.....	SS-R-521
Roofing and Siding; corrugated, asbestos-cement.....	SS-R-524
Roofing-Slabs; concrete, precast.....	SS-R-531
Sand; (for) cement-mortar-bed, (for) brick, stone-block or wood-block pavements.....	SS-S-51
Sand; (for) grout-filler, brick and stone-block pavements....	SS-S-61
Sand; (for use in) sheet asphalt or bituminous concrete pavements.....	SS-S-71
Sheathing-Board; gypsum.....	SS-S-276
Sheets; flat, asbestos-cement.....	SS-S-283
Sheets (corrugated) and Shapes; cement-asbestos.....	SS-S-284
Shingles; roofing, cement-asbestos.....	SS-S-291
Siding (shingles and clapboards); asbestos-cement.....	SS-S-346
Slabs, roofing, precast, gypsum.....	SS-S-439
Slate; roofing.....	SS-S-451
Stone; architectural, cast.....	SS-S-721
Stones, sharpening.....	SS-S-736
Tile, asphalt.....	SS-T-306
Tile, drain; clay.....	SS-T-310
Tile; partition, gypsum.....	SS-T-316
Tile; structural, clay, floor.....	SS-T-321
Tile; structural, clay, load-bearing, wall.....	SS-T-341
Tile; structural, clay, non-load-bearing.....	SS-T-351
Wallboard; gypsum.....	SS-W-51

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PAINTS, PIGMENTS, VARNISHES AND PRODUCTS

Specification Symbol

Aluminum-Pigment; powder and paste (for paint).....	TT-A-468
Blue-Lead; basic sulphate, dry and paste-in-oil.....	TT-B-486
Bone-Black; dry (paint pigment).....	TT-B-600
Calcimine (cold- and hot-water-types).....	TT-C-96
Carbon-Black; dry (paint pigment).....	TT-C-120
Chrome-Green; pure, dry (paint pigment).....	TT-C-235
Chrome-Yellow and Chrome-Orange; dry (paint pigment).....	TT-C-290
Chromium-Oxide-Green; dry (paint pigment).....	TT-C-306
Compound, calking; plastic (for masonry and other structures)	TT-C-598
Copper-Phthalocyanine-Blue; dry (paint pigment).....	TT-C-610
Drier; paint, liquid.....	TT-D-651
Enamel; (for) drums and other metal products, rust- inhibiting, olive drab.....	TT-E-485
Enamel; heat-resisting (400° F), black.....	TT-E-496
Enamel; interior, gloss, tints and white.....	TT-E-506
Enamel; interior, semigloss, tints and white.....	TT-E-508
Enamel; lusterless, olive-drab (Primarily for nonmilitary use)	TT-E-514
Enamel; water-resisting, red.....	TT-E-531
Filler; wood, paste.....	TT-F-336
Indian-Red and Bright-Red; (Iron-Oxide) dry; (paint-pigments)	TT-I-511
Iron-Blue; dry (paint pigment).....	TT-I-677
Iron-Oxide; black, synthetic, dry (paint pigment).....	TT-I-698
Iron-Oxide; brown, synthetic, dry (paint pigment).....	TT-I-702
Lacquer; spraying, clear and pigmented (general use).....	TT-L-58
Lampblack; dry (paint-pigment).....	TT-L-70
Lithopone; dry (paint-pigment).....	TT-L-426
Magnesium-Silicate; dry (paint-pigment).....	TT-M-90
Metallic-Brown; dry (paint pigment).....	TT-M-251
Mineral-Red (Iron-Oxide), natural; dry (paint-pigments).....	TT-M-381
Ocher; yellow, dry (paint-pigment).....	TT-O-121
Oil; flatting and mixed (for thinning white-lead paste and similar paste paints).....	TT-O-356
Oil; linseed, boiled (for use in organic coatings).....	TT-O-364
Oil, linseed, raw (for use in organic coatings).....	TT-O-369
Oil; linseed-replacement (for use in organic coatings).....	TT-O-371
Oil; soybean; refined (for use in organic coatings).....	TT-O-388
Oil; tung (china-wood), raw (for use in organic coatings)....	TT-O-395
Paint; alkyd resin-emulsion, exterior, paste, tints and white	TT-P-18
Paint, blue-lead-base; basic-sulphate, linseed-oil, ready- mixed.....	TT-P-20
Paint; cement-water, powder, white and tints (for interior and exterior-use).....	TT-P-21
Paint; cold-water, exterior, powder (with mixing liquid).....	TT-P-22
Paint; cold-water, interior, light-tints and white.....	TT-P-23
Paint; concrete and masonry, exterior, eggshell-finish, ready-mixed, white and tints.....	TT-P-24
Paint; exterior-primer, ready-mixed, white (under-coat for wood).....	TT-P-25
Paint; graphite, outside, ready-mixed, black.....	TT-P-27
Paint; iron-oxide, ready-mixed and semipaste, red and brown..	TT-P-31
Paint; oil, exterior, ready-mixed, light-tints and white.....	TT-P-40
Paint; oil, interior, 1-coat-flat, heavy-bodied (for thinning), light-tints and white (combined sealer primer, and finish).....	TT-P-47

PAINTS, PIGMENTS, VARNISHES AND PRODUCTS (Cont.)

Specification
Symbol

Paint; oil, interior, wall, tints and white.....	TT-P-51	
Paint; outside, ready-mixed, medium-chrome-yellow.....	TT-P-53	
Paint; primer-sealer (for) plaster and wallboard.....	TT-P-56	
Paint; ready-mixed, international-orange.....	TT-P-59	
Paint; ready-mixed, black.....	TT-P-61	
Paint; ready-mixed, exterior, chrome-green.....	TT-P-71	
Paint; ready-mixed, olive-drab.....	TT-P-81	
Paint, red-lead-base; linseed-oil, ready-mixed.....	TT-P-86	
Paint; resin-base emulsion, interior, paste, tints and white.	TT-P-88	
Paint; rubber-base, (for) cement-floors.....	TT-P-91	
Paint; traffic, exterior, white and yellow.....	TT-P-115	
Paint, Varnish, Lacquer, and related-materials; general specification for inspection, sampling, and testing....	TT-P-141	\$2.00
Paint; varnish-base (for concrete and wood floors).....	TT-P-146	
Pigments-in-oil; paint colors.....	TT-P-381	
Primer, paint; synthetic (for ferrous metal and wood surfaces)	TT-P-636	
Primer, paint; zinc dust-zinc oxide (for galvanized (zinc-coated) or zinc surfaces).....	TT-P-641	
Primer-Surfacer; synthetic, tints and white (for metal and wood hospital furniture).....	TT-P-659	
Putty and Elastic-Compound; (for) metal-sash-glazing.....	TT-P-781	
Putty; pure-linseed-oil, (for) wood sash-glazing.....	TT-P-791	
Red-Lead; dry and paste-in-oil.....	TT-R-191	
Remover; paint and varnish (organic-solvent-type).....	TT-R-251	
Sealer, floor; lacquer-type (for oiled wood floors).....	TT-S-171	
Sealer, floor; varnish-type (for wood and cork).....	TT-S-176	
Shellac (orange) and other lacs.....	TT-S-271	
Sienna; burnt and raw, dry (paint-pigment).....	TT-S-346	
Stain; opaque, wood, exterior, oil.....	TT-S-706	
Stain; wood, interior, non-bleeding.....	TT-S-711	
Thinner; lacquer.....	TT-T-266	
Thinner; paint, volatile mineral spirits (petroleum spirits).	TT-T-291	
Thinner; synthetic-enamel.....	TT-T-306	
Titanium-Dioxide; dry (paint-pigment).....	TT-T-425	
Toluidine-Red-Toner; dry (paint-pigment).....	TT-T-562	
Turpentine; gum-spirits and wood (steam-distilled and sulphate), (for use in organic coatings).....	TT-T-801	
Turpentine; wood (destructively-distilled), (for use in organic coatings).....	TT-T-806	
Ultramarine-Blue; dry (paint-pigment).....	TT-U-450	
Umber, burnt and raw; dry (paint-pigment).....	TT-U-481	
Varnish; asphalt.....	TT-V-51	
Varnish; damar.....	TT-V-61	
Varnish; interior.....	TT-V-71	
Varnish; mixing (for) aluminum-paint.....	TT-V-81	
Varnish, Rubbing; cabinet.....	TT-V-86	
Varnish; shellac.....	TT-V-91	
Varnish; spar, water-resisting.....	TT-V-121	
Varnish; spirit (shellac varnish replacement).....	TT-V-130	
Venetian-Red; dry (paint-pigment).....	TT-V-226	
White-Lead; basic-carbonate, dry, paste-in-oil, and semipaste containing volatile-thinner.....	TT-W-251	
White-Lead; basic-sulphate, dry and paste-in-oil.....	TT-W-261	

PAINTS, PIGMENTS, VARNISHES AND PRODUCTS (Cont.)

Specification Symbol

Wood-Preservative; anthracene-oil (for) brush, spray, and open-tank treatment.....	TT-W-531
Wood-Preservative; celcure (acid-cupric-chromate).....	TT-W-546
Wood-Preservative; chromated-zinc-chloride.....	TT-W-551
Wood-Preservative; coal-tar creosote.....	TT-W-556
Wood-Preservative; coal-tar-creosote (crystal-free), (for) brush, spray, or open-tank treatment.....	TT-W-560
Wood-Preservative; creosote-coal-tar-solution.....	TT-W-566
Wood-Preservative; creosote-petroleum-solution.....	TT-W-568
Wood-Preservative; recommended treating practice.....	TT-W-571
Wood-Preservative; Wolman-salt (Tanalith).....	TT-W-573
Wood-Preservative; zinc-chloride.....	TT-W-576
Wood-Preservative; zinc-meta-arsenite (ZMA).....	TT-W-581
Yellow-Iron-Oxide; hydrated, synthetic, dry (paint-pigment)..	TT-Y-216
Zinc-Dust (Metallic-Zinc-Powder); dry (paint pigment).....	TT-Z-291
Zinc-Oxide; dry and paste-in-oil.....	TT-Z-301
Zinc-Oxide; leaded, dry and paste-in-oil.....	TT-Z-321
Zinc-Yellow (Zinc-Chromate); dry (paint-pigment).....	TT-Z-415

PAPER AND PRODUCTS

Paper; building, waterproofed.....	UU-P-147
Paper, kraft; concrete-curing, waterproofed.....	UU-P-264
Wallboard; composition.....	UU-W-101

PETROLEUM AND PRODUCTS

Kerosene.....	VV-K-211
Lubricant; chain, exposed-gear, and wire-rope.....	VV-L-751
Oil; cutting, mineral-fatty-oil-blend.....	VV-O-251
Oil; cutting, soluble.....	VV-O-261
Oil; fuel, (for) oil-burners.....	VV-O-326
Oil; illuminating, long-time-burning.....	VV-O-381
Oil; lubricating, turbine, dynamo, and high-speed steam engine	VV-O-661

PIPE, PIPE-FITTINGS, PLUMBING-FIXTURES, TUBES, AND TUBING (metallic)

Conduit; steel, flexible.....	WW-C-566
Conduit; steel, rigid, enameled.....	WW-C-571
Conduit; steel, rigid, zinc-coated.....	WW-C-581
*Coupling; hose, cotton (rubber-lined) and linen (unlined)....	WW-C-621
*Couplings; hose, oil-suction and discharge.....	WW-C-626
Couplings; hose, pneumatic and spray (for working pressures up to 150 pounds per square inch).....	WW-C-631
Couplings; hose, steam.....	WW-C-636
Couplings; hose, water-suction.....	WW-C-646
Flange-Dimensions, standard; (classes 125 and 250 cast-iron flanges; classes 150, 250, and 300 bronze-flanges) (for land use).....	WW-F-406
Nipples, pipe; brass, steel, and wrought-iron.....	WW-N-351
Pipe, Bends and Traps; lead (for) plumbing and water-distribution.....	WW-P-325
Pipe; brass, seamless, iron-pipe-size, standard and extra-strong.....	WW-P-351
*Coupling; hose, garden and water.....	WW-C-623

PIPE, PIPE-FITTINGS, PLUMBING-FIXTURES, TUBES, AND TUBING (metallic) (Cont.)	Specification Symbol
Pipe, cast-iron; drainage, vent, and waste (threaded).....	WW-P-356
Pipe; copper, seamless, iron-pipe-size, standard.....	WW-P-377
Pipe and Pipe-Fittings; soil, cast-iron.....	WW-P-401
Pipe; steel and ferrous-alloy (for) bending, flanging, etc. (iron-pipe-size).....	WW-P-404
Pipe; steel and ferrous-alloy (for) ordinary uses (iron-pipe-size).....	WW-P-406
Pipe; water, cast-iron (bell and spigot, and bolted-joint)....	WW-P-421
Pipe; wrought-iron, welded, black and zinc-coated.....	WW-P-441
Pipe-Fittings; bronze (screwed), 125- and 250-pound.....	WW-P-460
Pipe-Fittings (brushings, plugs, and locknuts); bronze and ferrous (screwed).....	WW-P-471
Pipe-Fittings; cast-iron, drainage.....	WW-P-491
Pipe-Fittings; cast-iron (screwed), 125- and 250-pound.....	WW-P-501
Pipe-Fittings; malleable-iron (screwed), 150-pound.....	WW-P-521
Plumbing-Fixtures; (for) land use.....	WW-P-541
Plumbing-Fixtures; (for) land use (Formed-Metal Plumbing-Fixtures).....	WW-P-542
Traps; radiator, thermostatic, brass or bronze low-pressure, 100 square-foot-size (for land use).....	WW-T-696
Tubes; boiler, steel.....	WW-T-731
Tubes; condenser and ferrule-stock, Admiralty-metal.....	WW-T-756
Tubing, aluminum (AL-2); round, seamless.....	WW-T-783
Tubing, aluminum (AL-24) (aluminum-copper-magnesium (1.5%)- manganese); round, seamless.....	WW-T-785
Tubing, aluminum-alloy (AL-17) (aluminum-copper, magnesium- manganese); round, seamless.....	WW-T-786
Tubing, aluminum-alloy (AL-52) (aluminum-magnesium- chromium); round, seamless.....	WW-T-787
Tubing, aluminum-alloy (AL-3) (aluminum-manganese), round, seamless.....	WW-T-788
Tubing, aluminum-alloy (AL-61) (aluminum-manganese-silicon); round, seamless.....	WW-T-789
Tubing, aluminum-alloy (AL-53), (aluminum-magnesium- silicon-chromium); round, seamless.....	WW-T-790
Tubing; brass, seamless.....	WW-T-791
Tubing; copper, seamless (for general use with I. P. S. flanged-fittings).....	WW-T-797
Tubing; copper, seamless (for use with solder joint or flared-tube fittings).....	WW-T-799
Tubing; electrical, metallic.....	WW-T-806
Unions; brass or bronze, 250-pounds.....	WW-U-516
Unions; malleable-iron or steel, 250-pounds.....	WW-U-531
Unions; malleable-iron or steel, 300-pounds.....	WW-U-536
Valves, bronze; angle, check, and globe, 125- and 150-pound, screwed and flanged (for land use).....	WW-V-51
Valves, bronze, gate; 125- and 150-pound, screwed and flanged (for land use).....	WW-V-54
Valves, cast-iron, gate; 125- and 250-pound, screwed and flanged (for land use).....	WW-V-58
Valves, cylinder; oxygen (for standard industrial cylinders)...	WW-V-61
Valves, radiator; air, thermostatic (gravity-steamheating- systems).....	WW-V-151

<u>RUBBER AND RUBBER-GOODS</u>	<u>Specification</u> <u>Symbol</u>
Cushion (underlay); carpet and rug, sponge-rubber.....	ZZ-C-811
Floor-Covering; rubber, sheet.....	ZZ-F-461
Hose; fire, cotton, rubber-lined.....	ZZ-H-451
Hose; gas (acetylene-hydrogen, air, and oxygen).....	ZZ-H-461
Hose; water, braided.....	ZZ-H-601
Hose; water, wrapped.....	ZZ-H-611
Mats, Floor; rubber, link-type.....	ZZ-M-46
Matting; rubber.....	ZZ-M-71
Matting; rubber (for use around electrical apparatus or circuits not exceeding 3,000 volts to ground).....	ZZ-M-81
Tile, floor, rubber.....	ZZ-T-301

TEXTILES (yardage)

Cloth; awning.....	CCC-C-406
Cloth; shade.....	CCC-C-521

TEXTILE PRODUCTS

Mats; cotton (for concrete-curing).....	DDD-M-148
Mats, door; fiber.....	DDD-M-156
Shades, window; rollers, slats, cords, and accessories.....	DDD-S-251

TOOLS

Adzes.....	GGG-A-151
Anvils; blacksmiths'.....	GGG-A-576
Awls.....	GGG-A-891
Axes.....	GGG-A-926
Bars; chisel, crow, pinch, and wrecking.....	GGG-B-101
Bits; screw-driver.....	GGG-B-376
Bits; woodboring; and chisels, mortising, hollow.....	GGG-B-383
Blades; hacksaw (hand).....	GGG-B-451
Braces; ratchet.....	GGG-B-671
Chisels, gouges, and slicks; woodworkers'.....	GGG-C-311
Clamps; and hand-screws.....	GGG-C-406
Coppers (irons); soldering.....	GGG-C-571
Countersinks; steel (carbon and high-speed).....	GGG-C-613
Cutlery; galley and kitchen.....	GGG-C-746
Cutters, glass; wheel type (for sheet-glass and round- gage-glass).....	GGG-C-751
Cutters; pipe.....	GGG-C-771
Drills; breast.....	GGG-D-651
Drills; hand.....	GGG-D-671
Frames; hack-saw.....	GGG-F-671
Gages; plug and ring, plain and thread.....	GGG-G-61
Goggles; eyecup, protective, impact-resisting (chippers', grinders', etc.).....	GGG-G-501
Goggles; eyecup, protective (welders').....	GGG-G-511
Goggles; rubber-frame.....	GGG-G-521
Hammers, mauls, and sledges.....	GGG-H-86
Hand-saw-sets.....	GGG-H-101

TOOLS (Cont.)

Specification Symbol

Hatchets.....	GGG-H-131
Helmets; babbitting.....	GGG-H-171
Helmets and masks; (for) abrasive-cleaning.....	GGG-H-201
Helmets and shields (hand-held); welders'.....	GGG-H-211
Hoes; garden and mortar.....	GGG-H-496
Hoes; Mattocks; and picks.....	GGG-H-506
Hooks; bush (brush).....	GGG-H-601
Hooks; grass (sickles).....	GGG-H-608
Irons; calking, wood.....	GGG-I-671
Jacks.....	GGG-J-51
Knives; linoleum, plumbers'-chipping, putty-scraping, and shoe.....	GGG-K-481
Ladles; plumbers'.....	GGG-L-51
Levels and plumbs.....	GGG-L-211
Nail-sets.....	GGG-N-71
Picks; ice.....	GGG-P-323
Pipe-threads; taper (American-National).....	GGG-P-351
Planes.....	GGG-P-436
Pliers and nippers.....	GGG-P-471
Plumb-bobs.....	GGG-P-501
Pots, fire; gasoline and kerosene.....	GGG-P-596
Pullers; nail.....	GGG-P-791
Punches; bag, center, coopers' coppering, cutting, tinners', and drive-pin.....	GGG-P-831
Rakes; hand.....	GGG-R-96
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